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Amendments to the Abstract:

Please replace the Abstract with the following amended Abstract:

A method and system ~~of~~ is provided for compensating for imbalance in a data storage disc stack during assembly of the data storage device. ~~The method introduces an~~  
~~An~~ optical measurement system downstream of the disc clamp installation operation. ~~The~~  
~~system measures multiple~~ one or more parameters of a ~~most recent N incoming~~  
~~predetermined sample of~~ disc-stacks produced on the assembly line, ~~where N is a suitable~~  
~~sample size, such as 30 disc stacks. The measured parameters can comprise disc clamp~~  
~~offset, clamp offset angle, and ring outer diameter. After measuring parameters for a~~  
~~suitable sample size N, the optical system calculates a dynamic or moving average of the~~  
~~most recent N disc stack component offsets and/or offset angles. The calculated averages~~  
~~are then~~ A moving average of the sampled measurements is utilized to determine a  
component configuration type that will compensate for the any measured disc stack  
imbalance ~~according to the offset trend. The system then feeds back the clamp~~  
~~configuration type to a clamp installation operation where the configuration type is installed~~  
~~during assembly of the next disc stack.~~